

IN THE CLAIMS

Please cancel claims 1-6 without prejudice or disclaimer of the subject matter thereof.

Please add new claims 7-15 as follows:

-- 7. A liquid crystal display device comprising:

A2
a matrix liquid crystal display panel having a plurality of dots, each of the dots is formed with a Red (R) pixel, a Green (G) pixel and a Blue (B) pixel; and

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a X direction driver having a plurality of X signal lines corresponding to each of the pixels of the matrix liquid crystal display panel, said X direction driver outputs driving voltages making the matrix liquid crystal display panel display multi-color of R, G and B,

wherein the X direction driver includes a clock terminal which receives a clock signal provided from an external device and M ports which receive M dots multi-tone digital data, each of the M dots multi-tone digital data represents driving voltages of the R, G and B, each of the R, G and B being 2^N tones, where M and N are each integers of 2 or more, and

wherein the M ports receive n dots multi-tone digital data with n/M clock pulses of the clock signal provided via the clock terminal, where n is integer of 2 or more.

2.
8. A liquid crystal display device according to claim 7, wherein the X direction driver has output terminals, each

of the output terminals is coupled to the one of the plurality of X signal lines, and

wherein the X direction driver outputs driving voltages in accordance with the M dots multi-tone digital data.

A2
Cont. 3.
1. A liquid crystal display device according to claim 1, wherein each of the M ports receives multi-tone digital data by one dot.

4.
10. A liquid crystal display device comprising:
a matrix liquid crystal display panel having a plurality of dots, each of the dots is formed with a Red (R) pixel, a Green (G) pixel and a Blue (B) pixel; and
a X direction driver having a plurality of X signal lines corresponding to each of the pixels of the matrix liquid crystal display panel, said X direction driver outputs driving voltages making the matrix liquid crystal display panel display multi-color of the R, G and B,

wherein the X direction driver includes a clock terminal which receives a clock signal provided from an external device and M ports which receive M dots multi-tone digital data synchronized with the clock signal, each of the M dots multi-tone digital data being N-bit data for each of the R, G and B, each of the M multi-tone digital data represents driving voltages of the R, G and B, each of the R, G and B

displaying 2^N tones, where M and N each are an integer of 2 or more, and

wherein the M ports receive n dots multi-tone digital data with n/M clock pulses of the clock signal provided via the clock terminal, where n is integer of 2 or more.

A2
Cont.
4 5.
11. A liquid crystal display device according to claim 10, wherein the X direction driver has output terminals, each of the output terminals is coupled to one of the plurality of X signal lines,

wherein the X direction driver outputs driving voltages in accordance with the M dots multi-tone digital data.

6.
4 12. A liquid crystal display device according to claim 10, wherein each of the M ports receives multi-tone digital data by one dot.

7.
13. A liquid crystal display device comprising:
a matrix liquid crystal display panel having a plurality of dots, each of the dots is formed with a Red (R) pixel, a Green (G) pixel and a Blue (B) pixel; and
a X direction driver having a plurality of X signal lines corresponding to each of the pixels of the matrix liquid crystal display panel, said X direction driver outputs driving

voltages making the matrix liquid crystal display panel display multi-color of R, G and B,

wherein the X direction driver includes a clock terminal which receives a clock signal provided from an external device and M ports which receive M dots multi-tone digital data synchronized with the clock signal, each of the M dots multi-tone digital data being N-bit data for each of the R, G and B display as 2^N tones, where M and N each are an integer of 2 or more, and

wherein the M ports receive n dots multi-tone digital data with n/M clock pulses of the clock signal provided via the clock terminal, wherein n is integer of 2 or more.

7 8. A liquid crystal display device according to claim 13, wherein the X direction driver has output terminals, each of the output terminals is coupled to one of the plurality of X signal lines, and

wherein the X direction driver outputs driving voltages in accordance with the M dots multi-tone digital data.

8 9. A liquid crystal display device according to claim 14, wherein each of the M ports receives multi-tone digital data by one dot.--